IN THE CLAIMS:

Please amend the claims as follows:

- (currently amended) A method <u>comprising:</u> for determining a transmission power factor being operable with an i-th re-transmission during an uplink data transmission between a mobile terminal device (UE) and a base station (BS) via a code division multiple access (CDMA) system employing an automatic repeat request (ARQ), said uplink data transmission being operated in a sequence of first transmissions and i th re-transmissions,
 - receiving a pre-defined number (M)-of status information items, said status information items each containing at least one of an acknowledgement (ACK)-item and a non-acknowledgement (NACK)-item in accordance with saidan automatic repeat request (ARQ)associated with an i-th re-transmission during an uplink data transmission between a mobile terminal device and a base station via a code division multiple access system employing said automatic repeat request, said uplink data transmission being operated in a sequence of first transmissions and i-th re-transmissions;
 - determining a first error quantity (Ni)—and a second error quantity (Ki)—from said pre-defined number (M)—of status information items,
 said first error quantity (Ni)—being equal to a number of i-th re-transmissions,
 said second error quantity (Ki)—being equal to a number of i-th re-transmissions being responded by status information items each containing said non-acknowledgement (NACK)—item; and
 - determining an error ratio from said first error quantity (Ni) and said second error quantity (Ki); and
 - determining a transmission power factor (Pi_{cmd,new})—from a current valid transmission power factor (Pi_{cmd})—and a transmission power correction factor (ΔPi_{cmd})—such that a difference between said error ratio and a pre-defined target error ratio (FER)—is minimized,

wherein said determining of the transmission power factor further comprises:

- <u>determining a deviation value of said error ratio from said pre-defined target</u> error ratio;

in case said first error quantity is unequal to zero or said deviation value exceeds a pre-defined deviation level :

- determining said transmission power correction factor depending on at least a
 transmission power correction step value, said first error quantity, said second
 error quantity and said pre-defined target error ratio; and
- determining said transmission power factor;
 otherwise:

maintaining a current valid transmission power factor being operable with said i-th re-transmission, and

further wherein said transmission power correction factor is a product of a first factor, a second factor and a third factor, wherein

- a value of said first factor is equal to a value out of -1 and +1;
- said second factor is defined mathematically as following:

$$\left(\frac{C_{Ni}^{Ki} \cdot FER^{Ki} (1 - FER)^{Ni - Ki}}{FER}\right)^{-1}$$

where C_{Ni}^{Ki} is a binomial coefficient, FER is said pre-defined target error ratio, Ni is said first error quantity and Ki is said second error quantity; and said third factor is said transmission power correction step value.

- 2. (canceled)
- 3. (currently amended) The method according to claim 21, wherein said transmission power correction factor (ΔPi_{cmd})-increases said transmission power factor (Pi_{cmd})-in case said error ratio is higher than said pre-defined target error

ratio (FER)—and said transmission power correction factor (ΔPi_{cmd})—decreases said transmission power factor—(Pi_{cmd}) in case said error ratio is lower than said pre-defined target error ratio—(FER).

- 4. (currently amended) The method according to claim 1, wherein said error ratio (Ki/Ni) is a ratio of said second error quantity (Ki) and said first error quantity (Ni).
- 1.5. (currently amended) The method according to claim 21, wherein said deviation value is an absolute deviation value of a difference between said error ratio (Ki/Ni) and said pre-defined target error ratio (FER) and said pre-defined deviation level is a pre-defined system parameter-(ε).
- 6. (currently amended) The method according to claim $2\underline{1}$, wherein said predefined deviation level depends (ε) on said pre-defined target error ratio $(\varepsilon = \varepsilon[\text{FER}])$.
- 7. (currently amended) The method according to claim 21, said transmission power factor (Pi_{cmd}) being a transmission power reduction factor, said transmission power factor (Pi_{cmd}) being defined in relationship to a transmission power being operable with first transmissions, wherein said transmission power is an original transmission power being not adjusted due to one e-ror more further supplementary power control mechanisms.
- 8. (currently amended) The method according to claim 1, wherein said pre-defined target error ratio is a target frame error ratio (target FER).
- 9. (canceled)
- 10.(currently amended) The method according to claim 1, wherein said code division multiple access (CDMA)—system is a wideband code division multiple

access (WCDMA)-system, said automatic repeat request (ARQ)-is a fast hybrid automatic repeat request (fast H-ARQ), at least one dedicated physical data channel (DPDCH)-and a dedicated physical control channel (DPCCH)-are used for uplink data transmission WCDMA-and said transmission power factor (Pi_{cmd}) is applied selectively on said at least one dedicated physical data channel (DPDCH).

- 11. (previously presented) A software tool for determining a transmission power factor, comprising program portions for carrying out the operations of claim 1, when said program portions are implemented in a computer program stored on a readable medium for being executed on a processing device, a terminal device, a communication terminal device or a network device.
- 12. (previously presented) A computer program product for determining a transmission power factor, comprising loadable program code sections for carrying out the operations of claim 1, when said program code sections are executed on a processing device, a terminal device, a communication terminal device or a network device.
- 13. (previously presented) A computer program product for determining a transmission power factor, wherein said computer program product is comprising program code sections stored on a computer readable medium for carrying out the method of claim 1, when said computer program product is executed on a processing device, a terminal device, a communication terminal device or a network device.
- 14. (currently amended) A mobile terminal device for determining a transmission power factor being operable with an i-th re-transmission during an uplink data transmission to a base station-(BS), comprising:
 - a communication interface.

said communication interface transmitting a sequence of individual data packets, said transmitting being operated via a code division multiple access (CDMA) system and using an automatic repeat request (ARQ),

said communication interface receiving a pre-defined number (M) of status information items each containing at least one of an acknowledgement (ACK) item and a non-acknowledgement (NACK) item in accordance with said automatic repeat request (ARQ);

- a component for determining a first error quantity (Ni)—and a second error quantity (Ki)—from said pre-defined number (M)—of status information items, said first error quantity (Ni)—being equal to a number of i-th re-transmissions, said second error quantity (Ki)—being equal to a number of i-th re-transmissions being responded by status information items each containing said non-acknowledgement (NACK)—item;
- a component for determining an error ratio from said first error quantity (Ni) and said second error quantity (Ki); and
- a component for determining a transmission power factor (Pi_{cmd,new}) from a current valid transmission power factor (Pi_{cmd}) and a transmission power correction factor (ΔPi_{cmd}) in order to minimize a difference between said error ratio and a pre-defined target error ratio (FER).
 - wherein said component for determining a transmission power factor is further configured:
- to determine a deviation value of said error ratio from said pre-defined target error ratio;
 - in case said first error quantity is unequal to zero or said deviation value exceeds a pre-defined deviation level:
- to determine said transmission power correction factor depending on at least a transmission power correction step value, said first error quantity, said second error quantity and said pre-defined target error ratio; and
- to determine said transmission power factor;
 otherwise:

to maintain a current valid transmission power factor being operable with said i-th re-transmission, and

<u>further wherein said transmission power correction factor is a product of a first</u> factor, a second factor and a third factor, wherein

- a value of said first factor is equal to a value out of -1 and +1;
- said second factor is defined mathematically as following:

$$\left(\frac{C_{Ni}^{Ki} \cdot FER^{Ki} (1 - FER)^{Ni - Ki}}{FER}\right)^{-1}$$

where C_{Ni}^{Ki} is a binomial coefficient, FER is said pre-defined target error ratio, Ni is said first error quantity and Ki is said second error quantity; and said third factor is said transmission power correction step value.

- 15. (currently amended) A system allowing for determining a transmission power factor being operable with an i-th re-transmission during an uplink data transmission from a mobile terminal device (UE) to a base station (BS), said mobile terminal device comprising:
 - a communication interface, said communication interface transmitting a sequence of individual data packets, said transmitting being operated via a code division multiple access (CDMA)-system and using an automatic repeat request-(ARQ), said communication interface receiving a pre-defined number (M)-of status information items each containing at least one of an acknowledgement (ACK) item and a non-acknowledgement (NACK)—item in accordance with said automatic repeat request-(ARQ);
 - a component for determining a first error quantity (Ni) and a second error quantity (Ki) from said pre-defined number (M) of status information items, said first error quantity (Ni) being equal to a number of i-th re-transmissions,

said second error quantity (Ki)—being equal to a number of i-th retransmissions being responded by status information items each containing said non-acknowledgement (NACK)-item;

- a component for determining an error ratio from said first error quantity (Ni)
 and said second error quantity (Ki); and
- a component for determining a transmission power factor (Pi_{cmd,new})—from a current valid transmission power factor (Pi_{cmd})—and a transmission power correction factor (ΔPi_{cmd})—in order to minimize a difference between said error ratio and a pre-defined target error ratio—(FER)
 wherein said component for determining a transmission power factor is further configured:
- to determine a deviation value of said error ratio from said pre-defined target error ratio;
 - in case said first error quantity is unequal to zero or said deviation value exceeds a pre-defined deviation level:
- to determine said transmission power correction factor depending on at least a transmission power correction step value, said first error quantity, said second error quantity and said pre-defined target error ratio; and
- to determine said transmission power factor;

otherwise:

to maintain a current valid transmission power factor being operable with said i-th re-transmission, and

<u>further wherein said transmission power correction factor is a product of a first</u> <u>factor, a second factor and a third factor, wherein</u>

- a value of said first factor is equal to a value out of -1 and +1;
- said second factor is defined mathematically as following:

$$\left(\frac{C_{Ni}^{Ki} \cdot FER^{Ki} (1 - FER)^{Ni-Ki}}{FER}\right)^{-1}$$

where C_{Ni}^{Ki} is a binomial coefficient, FER is said pre-defined target error ratio,

Ni is said first error quantity and Ki is said second error quantity; and

said third factor is said transmission power correction step value;

said base station comprising:

a communication interface, said communication interface receiving said sequence of individual data packets from said mobile terminal device; and said communication interface transmitting said status information items to said mobile terminal device, said status information items being based on said automatic repeat request (ARQ).